ELSEVIER

Applied Surface Science 236 (2004) I–IV

applied surface science

www.elsevier.com/locate/apsusc

Author Index

Abd El-Malak, A.M., see Refaey, S.A.M. 236 (2004) 175
Ananenko, A., A. Fedorov, P. Mateychenko, V. Tarasov and Yu. Vidaj, Structure and scintillation properties of CsI(Tl) epitaxial layers 236 (2004) 186
Aouadi, S.M., see Debessai, M. 236 (2004) 63
Auner, G., see Georgiev, D.G. 236 (2004) 71

Bai, X.D., see Zhou, Q.G. 236 (2004) 236
Baik, K.H., see Ip, K. 236 (2004) 387
Baird, R.J., see Georgiev, D.G. 236 (2004) 71
Balakrishnan, V.R., see Roy, S.C. 236 (2004) 306
Banerjee, A.N., see Maity, R. 236 (2004) 231
Bednarova, Z., see Beerbom, M.M. 236 (2004) 208
Beerbom, M.M., Z. Bednarova, R. Gargagliano, Y.N. Emirov and R. Schlaf, Band line-up at the 4H-SiC/Ni interface determined with photoemission spectroscopy 236 (2004) 208
Belkacem, Y., see Keffous, A. 236 (2004) 42
Belkacem, Y., see Siad, M. 236 (2004) 366
Benayad, A., see Martinez, H. 236 (2004) 377
Benrekaa, N., see Keffous, A. 236 (2004) 42
Bhatnagar, M.C., see Roy, S.C. 236 (2004) 306
Birgerson, J., A. Lindsjö, M.M. Selo, M. Grehk and K. Skarp, Spectroscopic study of chemically stabilized dichroic thin crystal films 236 (2004) 444
Błażewicz, S., see Świątkowski, A. 236 (2004) 313
Bonnet, G., see Siab, R. 236 (2004) 50
Brizuela, G., see Jasen, P.V. 236 (2004) 394
Brossard, J.M., see Siab, R. 236 (2004) 50
Bustamante, A.G., see Silva, J.W.J. 236 (2004) 356

Cao, Y., W. Yang, Y. Chen, H. Du and P. Yue, Effect of chemisorbed surface species on the photocatalytic activity of TiO_2 nanoparticulate films 236 (2004) 223
Chang, K.-L., S.-C. Chung, S.-H. Lai and H.-C. Shih, The electrochemical behavior of thermally oxidized CrN coatings deposited on steel by cathodic arc plasma deposition 236 (2004) 406
Chang, T.-Y., J.-J. Tze and D.-S. Tsai, Influence of surface additives iodine and indium on the initial growth in copper chemical vapor deposition 236 (2004) 165
Chattopadhyay, K.K., see Maity, R. 236 (2004) 231
Chen, G., see Yan, X. 236 (2004) 328
Chen, X.W., see Zhou, Q.G. 236 (2004) 236
Chen, Y., see Cao, Y. 236 (2004) 223
Chen, Z., see Dou, J. 236 (2004) 57
Chergui, W., see Keffous, A. 236 (2004) 42
Cheriet, A., see Keffous, A. 236 (2004) 42
Chevalier, S., see Houngninou, C. 236 (2004) 256
Choi, S., see Wang, B.B. 236 (2004) 6
Chopra, S., S. Sharma, T.C. Goel and R.G. Mendiratta, Electrical and optical properties of sol–gel derived La modified $PbTiO_3$ thin films 236 (2004) 321
Chowdhury, M.Pal., see Gupta, S. 236 (2004) 426
Chung, C.Y., see Zhu, Y.H. 236 (2004) 106
Chung, S.-C., see Chang, K.-L. 236 (2004) 406
Codaro, E.N., see Silva, J.W.J. 236 (2004) 356
Craig Jr., J.H., see Lozano, J. 236 (2004) 25

Dahmani, A., see Keffous, A. 236 (2004) 42
de Sánchez, S.R., see López, D.A. 236 (2004) 77
Debessai, M., P. Filip and S.M. Aouadi, Niobium zirconium nitride sputter-deposited protective coatings 236 (2004) 63
Dehri, İ., see Özcan, M. 236 (2004) 155
Derylo-Marczewska, A., see Świątkowski, A. 236 (2004) 313
Descorme, C., see Galdikas, A. 236 (2004) 342
Dinhut, J.F., see Siab, R. 236 (2004) 50
Dou, J., W. Shang and Z. Chen, Nanometer size recrystallization grain induced by applied electric field 236 (2004) 57
Du, H., see Cao, Y. 236 (2004) 223
Duprez, D., see Galdikas, A. 236 (2004) 342

Early, D., see Lozano, J. 236 (2004) 25
Emirov, Y.N., see Beerbom, M.M. 236 (2004) 208
Erbil, M., see Özcan, M. 236 (2004) 155
Erbil, M., see Tüken, T. 236 (2004) 292
Etcheberry, A., see Raynal, F. 236 (2004) 198

Fedorov, A., see Ananenko, A. 236 (2004) 186
Filip, P., see Debessai, M. 236 (2004) 63
Füle, M., H. Horn, L. Nánai and T.F. George, Step melting of crystalline and amorphous lead foils due to irradiation by UV laser pulses 236 (2004) 467

Galdikas, A., D. Duprez and C. Descorme, A novel dynamic kinetic model of oxygen isotopic exchange on a supported metal catalyst 236 (2004) 342

doi:10.1016/S0169-4332(04)01236-X

Gao, W.D., see Wei, Q.F. 236 (2004) 456
Gargagliano, R., see Beerbom, M.M. 236 (2004) 208
George, T.F., see Füle, M. 236 (2004) 467
Georgiev, D.G., R.J. Baird, G. Newaz, G. Auner, R. Witte and H. Herfurth, An XPS study of laser-fabricated polyimide/titanium interfaces 236 (2004) 71
Gila, B.P., see Ip, K. 236 (2004) 387
Goel, T.C., see Chopra, S. 236 (2004) 321
Gonbeau, D., see Martinez, H. 236 (2004) 377
Gonzalez, E.A., see Jasen, P.V. 236 (2004) 394
Goworek, J., see Świątkowski, A. 236 (2004) 313
Greenhut, V.A., see Zhu, H. 236 (2004) 120
Grehk, M., see Birgerson, J. 236 (2004) 444
Gupta, S., M.Pal. Chowdhury and A.K. Pal, Field emission characteristics of diamond-like carbon films synthesized by electrodeposition technique 236 (2004) 426
Guruvenket, S., G. Mohan Rao, M. Komath and A.M. Raichur, Plasma surface modification of polystyrene and polyethylene 236 (2004) 278

Hamza, A.A., see Shams-el-Din, M.A. 236 (2004) 31
Hao, W., see Wang, B.B. 236 (2004) 6
Hein, L.R.O., see Silva, J.W.J. 236 (2004) 356
Heo, Y.W., see Ip, K. 236 (2004) 387
Herfurth, H., see Georgiev, D.G. 236 (2004) 71
Horn, H., see Füle, M. 236 (2004) 467
Hou, Y.-B., see Wang, Y.-M. 236 (2004) 251
Houngninou, C., S. Chevalier and J.P. Larpin, Synthesis and characterisation of pack cemented aluminide coatings on metals 236 (2004) 256
Huang, G.F., Z. Xie, W.Q. Huang, S.B. Yang and L.H. Zhao, The electrochemical behavior and surface structure of titanium electrodes modified by ion beams 236 (2004) 13
Huang, W.Q., see Huang, G.F. 236 (2004) 13

Ip, K., B.P. Gila, A.H. Onstine, E.S. Lambers, Y.W. Heo, K.H. Baik, D.P. Norton, S.J. Pearton, S. Kim, J.R. LaRoche and F. Ren, Effect of ozone cleaning on Pt/Au and W/Pt/Au Schottky contacts to n-type ZnO 236 (2004) 387

Jaegermann, W., see Wu, Q.-H. 236 (2004) 473
Jasen, P.V., G. Brizuela, Z. Padin, E.A. Gonzalez and A. Juan, Benzene and carbon monoxide co-adsorption on Pt(1 1 1): a theoretical study 236 (2004) 394
Ji, X., see Zhao, J. 236 (2004) 131
Jiang, B., see Jiang, S.-w. 236 (2004) 285
Jiang, B., see Zhao, J. 236 (2004) 131
Jiang, S., see Zhao, J. 236 (2004) 131
Jiang, S.-w., B. Jiang, Y. Li, Y.-r. Li, G.-f. Yin and C.-q. Zheng, Friction and wear study of diamond-like carbon gradient coatings on Ti6Al4V substrate prepared by plasma source ion implant-ion beam enhanced deposition 236 (2004) 285
Juan, A., see Jasen, P.V. 236 (2004) 394
Jüptner, W., see Shams-el-Din, M.A. 236 (2004) 31

Kalem, S., Synthesis of ammonium silicon fluoride cryptocrystals on silicon by dry etching 236 (2004) 336
Keddam, M., A kinetic model for the borided layers by the paste-boriding process 236 (2004) 451
Keffous, A., M. Siad, A. Cheriet, N. Benrekaa, Y. Belkacem, H. Menari, W. Chergui and A. Dahmani, Comparison of electrical and optical parameters of Au/n-Si and Ag/n-Si Schottky barrier photodiodes 236 (2004) 42
Keffous, A., see Siad, M. 236 (2004) 366
Kelley, M.J., see Zhu, Z. 236 (2004) 416
Kim, H.W., and N.H. Kim, Preparation of GaN films on ZnO buffer layers by rf magnetron sputtering 236 (2004) 192
Kim, N.H., see Kim, H.W. 236 (2004) 192
Kim, S., see Ip, K. 236 (2004) 387
Kimberlin, K.R., see Lozano, J. 236 (2004) 25
Komath, M., see Guruvenket, S. 236 (2004) 278
Kulka, M., and A. Pertek, Microstructure and properties of borocarburized 15CrNi6 steel after laser surface modification 236 (2004) 98
Kumar, P., and L.K. Malhotra, Electrochemically induced switching in SmH_x thin films 236 (2004) 461

Lai, S.-H., see Chang, K.-L. 236 (2004) 406
Lambers, E.S., see Ip, K. 236 (2004) 387
LaRoche, J.R., see Ip, K. 236 (2004) 387
Larpin, J.P., see Houngninou, C. 236 (2004) 256
Lee, S., see Wang, B.B. 236 (2004) 6
Lee, W.B., see Zhu, Y.H. 236 (2004) 106
Levasseur, A., see Martinez, H. 236 (2004) 377
Li, Y., see Jiang, S.-w. 236 (2004) 285
Li, Y.-r., see Jiang, S.-w. 236 (2004) 285
Li, Z., see Zhou, H. 236 (2004) 18
Lim, G.C., see Zheng, H.Y. 236 (2004) 114
Lindsjö, A., see Birgerson, J. 236 (2004) 444
Ling, Y.H., see Zhou, Q.G. 236 (2004) 236
Liu, D.-A., see Wang, Y.-M. 236 (2004) 251
Liu, H., see Yan, X. 236 (2004) 328
Liu, M., see Wu, Q.-H. 236 (2004) 473
Liu, X., see Zhao, J. 236 (2004) 131
Liu, Z., see Zhou, H. 236 (2004) 18
López, D.A., W.H. Schreiner, S.R. de Sánchez and S.N. Simison, The influence of inhibitors molecular structure and steel microstructure on corrosion layers in CO_2 corrosion. An XPS and SEM characterization 236 (2004) 77
Lozano, J., D. Early, P. Petrany, J.H. Craig Jr., P. Wang and K.R. Kimberlin, Electron irradiation effects on DES/Ge(1 0 0) at 90 K 236 (2004) 25

Maity, R., A.N. Banerjee and K.K. Chattopadhyay, Low-macroscopic field emission from fibrous ZnO thin film prepared by catalyst-free solution route 236 (2004) 231

Malhotra, L.K., see Kumar, P. 236 (2004) 461
Mamma, S., see Siad, M. 236 (2004) 366
Manchanda, R., see Roy, S.C. 236 (2004) 306
Martinez, H., A. Benayad, D. Gonbeau, P. Vinatier, B. Pecquenard and A. Levasseur, Influence of the cation nature of high sulfur content oxysulfide thin films MO_yS_z (M=W, Ti) studied by XPS 236 (2004) 377
Mateychenko, P., see Ananenko, A. 236 (2004) 186
Menari, H., see Keffous, A. 236 (2004) 42
Menari, H., see Siad, M. 236 (2004) 366
Mendiratta, R.G., see Chopra, S. 236 (2004) 321
Metev, S., see Shams-el-Din, M.A. 236 (2004) 31
Mohan Rao, G., see Guruvenket, S. 236 (2004) 278

Nakazato, R.Z., see Silva, J.W.J. 236 (2004) 356
Nánai, L., see Füle, M. 236 (2004) 467
Nanjundan, S., see Ravichandran, R. 236 (2004) 241
Newaz, G., see Georgiev, D.G. 236 (2004) 71
Niesz, D.E., see Zhu, H. 236 (2004) 120
Norton, D.P., see Ip, K. 236 (2004) 387

Onstine, A.H., see Ip, K. 236 (2004) 387
Özcan, M., İ. Dehri and M. Erbil, Organic sulphur-containing compounds as corrosion inhibitors for mild steel in acidic media: correlation between inhibition efficiency and chemical structure 236 (2004) 155
Özyılmaz, A.T., see Tüken, T. 236 (2004) 292

Padin, Z., see Jasen, P.V. 236 (2004) 394
Pal, A.K., see Gupta, S. 236 (2004) 426
Parkoun, V., see Vrublevsky, I. 236 (2004) 270
Pearton, S.J., see Ip, K. 236 (2004) 387
Pecquenard, B., see Martinez, H. 236 (2004) 377
Perez, H., see Raynal, F. 236 (2004) 198
Pertek, A., see Kulka, M. 236 (2004) 98
Petrany, P., see Lozano, J. 236 (2004) 25

Qian, H.X., see Zheng, H.Y. 236 (2004) 114
Qian, L., see Wang, Y.-M. 236 (2004) 251

Raichur, A.M., see Guruvenket, S. 236 (2004) 278
Rajendran, N., see Ravichandran, R. 236 (2004) 241
Ram, S., see Rana, S. 236 (2004) 141
Rana, S., S. Ram, S. Seal and S.K. Roy, Surface structure and topology in surface stabilized Co-nanoparticles with a thin Al_2O_3 amorphous layer 236 (2004) 141
Ravichandran, R., S. Nanjundan and N. Rajendran, Effect of benzotriazole derivatives on the corrosion of brass in NaCl solutions 236 (2004) 241
Raynal, F., A. Etcheberry, C. Reynaud and H. Perez, Quantitative analysis and thickness dependence study of Langmuir-Blodgett films of functionalized platinum nanoparticles by X-ray photoelectron spectroscopy 236 (2004) 198
Reddy, G.B., see Sian, T.S. 236 (2004) 1
Refaey, S.A.M., F. Taha and A.M. Abd El-Malak, Inhibition of stainless steel pitting corrosion in acidic medium by 2-mercaptobenzoxazole 236 (2004) 175
Ren, F., see Ip, K. 236 (2004) 387
Reynaud, C., see Raynal, F. 236 (2004) 198
Roy, S.C., G.L. Sharma, M.C. Bhatnagar, R. Manchanda, V.R. Balakrishnan and S.B. Samanta, Effect of pH on electrical and optical properties of sol–gel derived microcrystalline $Ba_{0.5}Sr_{0.5}TiO_3$ thin films 236 (2004) 306
Roy, S.K., see Rana, S. 236 (2004) 141

Sabia, R., see Zhu, H. 236 (2004) 120
Samanta, S.B., see Roy, S.C. 236 (2004) 306
Schlaf, R., see Beerbom, M.M. 236 (2004) 208
Schreckenbach, J., see Vrublevsky, I. 236 (2004) 270
Schreiner, W.H., see López, D.A. 236 (2004) 77
Seal, S., see Rana, S. 236 (2004) 141
Selo, M.M., see Birgerson, J. 236 (2004) 444
Shams-el-Din, M.A., C. Wochnowski, S. Metev, A.A. Hamza and W. Jüptner, Determination of the refractive index depth profile of an UV-laser generated waveguide in a planar polymer chip 236 (2004) 31
Shang, W., see Dou, J. 236 (2004) 57
Sharma, G.L., see Roy, S.C. 236 (2004) 306
Sharma, S., see Chopra, S. 236 (2004) 321
Shih, H.-C., see Chang, K.-L. 236 (2004) 406
Siab, R., G. Bonnet, J.M. Brossard and J.F. Dinhut, Deposition of yttrium-based thin films on TA6V alloy substrates 236 (2004) 50
Siad, M., A. Keffous, S. Mamma, Y. Belkacem and H. Menari, Correlation between series resistance and parameters of Al/n-Si and Al/p-Si Schottky barrier diodes 236 (2004) 366
Siad, M., see Keffous, A. 236 (2004) 42
Sian, T.S., and G.B. Reddy, Infrared spectroscopic studies on Mg intercalated crystalline MoO_3 thin films 236 (2004) 1
Silva, J.W.J., A.G. Bustamante, E.N. Codaro, R.Z. Nakazato and L.R.O. Hein, Morphological analysis of pits formed on Al 2024-T3 in chloride aqueous solution 236 (2004) 356
Simison, S.N., see López, D.A. 236 (2004) 77
Skarp, K., see Birgerson, J. 236 (2004) 444
Smith, M., see Zhu, H. 236 (2004) 120
Sokol, V., see Vrublevsky, I. 236 (2004) 270
Świątkowski, A., A. Deryło-Marczewska, J. Goworek and S. Błażewicz, Study of adsorption from binary liquid mixtures on thermally treated activated carbon 236 (2004) 313

Taha, F., see Refaey, S.A.M. 236 (2004) 175
Tan, T.T., see Zheng, H.Y. 236 (2004) 114
Tarasov, V., see Ananenko, A. 236 (2004) 186
Teng, F., see Wang, Y.-M. 236 (2004) 251
Tessaroto, L.A., see Zhu, H. 236 (2004) 120
Thissen, A., see Wu, Q.-H. 236 (2004) 473
To, S., see Zhu, Y.H. 236 (2004) 106
Tsai, D.-S., see Chang, T.-Y. 236 (2004) 165

Tüken, T., A.T. Özyılmaz, B. Yazıcı and M. Erbil, Electrochemical synthesis of polyaniline on mild steel in acetonitrile–$LiClO_4$ and corrosion performance 236 (2004) 292
Tze, J.-J., see Chang, T.-Y. 236 (2004) 165

Vidaj, Yu., see Ananenko, A. 236 (2004) 186
Vinatier, P., see Martinez, H. 236 (2004) 377
Vrublevsky, I., V. Parkoun, V. Sokol and J. Schreckenbach, Study of chemical dissolution of the barrier oxide layer of porous alumina films formed in oxalic acid using a re-anodizing technique 236 (2004) 270

Wang, B.B., S. Lee, X.Z. Xu, S. Choi, H. Yan, B. Zhang and W. Hao, Effects of the pressure on growth of carbon nanotubes by plasma-enhanced hot filament CVD at low substrate temperature 236 (2004) 6
Wang, D.R., see Zhou, Q.G. 236 (2004) 236
Wang, P., see Lozano, J. 236 (2004) 25
Wang, Q., see Zhao, J. 236 (2004) 131
Wang, R., see Zhao, L. 236 (2004) 217
Wang, X.Q., see Wei, Q.F. 236 (2004) 456
Wang, Y.-M., F. Teng, Z. Xu, Y.-B. Hou, S.-Y. Yang, L. Qian, T. Zhang and D.-A. Liu, White emission via electroplex formation at poly(*N*-vinylcarbazole)/2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline interface 236 (2004) 251
Wei, G., see Zhou, H. 236 (2004) 18
Wei, Q.F., X.Q. Wang and W.D. Gao, AFM and ESEM characterisation of functionally nanostructured fibres 236 (2004) 456
Witte, R., see Georgiev, D.G. 236 (2004) 71
Wochnowski, C., see Shams-el-Din, M.A. 236 (2004) 31
Wu, A., see Zhou, H. 236 (2004) 18
Wu, Q.-H., A. Thissen, W. Jaegermann and M. Liu, Photoelectron spectroscopy study of oxygen vacancy on vanadium oxides surface 236 (2004) 473

Xie, Z., see Huang, G.F. 236 (2004) 13
Xu, J., see Zhou, Q.G. 236 (2004) 236
Xu, T., see Yan, X. 236 (2004) 328
Xu, X.Z., see Wang, B.B. 236 (2004) 6
Xu, Z., see Wang, Y.-M. 236 (2004) 251
Xue, X.Y., see Zhou, Q.G. 236 (2004) 236

Yan, H., see Wang, B.B. 236 (2004) 6
Yan, X., T. Xu, G. Chen, S. Yang and H. Liu, Study of structure, tribological properties and growth mechanism of DLC and nitrogen-doped DLC films deposited by electrochemical technique 236 (2004) 328
Yang, S., see Yan, X. 236 (2004) 328
Yang, S.B., see Huang, G.F. 236 (2004) 13
Yang, S.-Y., see Wang, Y.-M. 236 (2004) 251
Yang, W., see Cao, Y. 236 (2004) 223
Yazıcı, B., see Tüken, T. 236 (2004) 292
Yekeler, H., and M. Yekeler, Reactivities of some thiol collectors and their interactions with Ag (+1) ion by molecular modeling 236 (2004) 435
Yekeler, M., see Yekeler, H. 236 (2004) 435
Yin, G.-f., see Jiang, S.-w. 236 (2004) 285
Yue, P., see Cao, Y. 236 (2004) 223

Zhang, B., see Wang, B.B. 236 (2004) 6
Zhang, T., see Wang, Y.-M. 236 (2004) 251
Zhao, J., S. Jiang, Q. Wang, X. Liu, X. Ji and B. Jiang, Effects of molecular weight, solvent and substrate on the dewetting morphology of polystyrene films 236 (2004) 131
Zhao, L., and R. Wang, γ-MnO_2 nano-sieve membrane: preparation, characterization and reaction studies 236 (2004) 217
Zhao, L.H., see Huang, G.F. 236 (2004) 13
Zheng, C.-q., see Jiang, S.-w. 236 (2004) 285
Zheng, H.Y., W. Zhou, H.X. Qian, T.T. Tan and G.C. Lim, Polarisation-independence of femtosecond laser machining of fused silica 236 (2004) 114
Zhou, H., Z. Li, A. Wu, G. Wei and Z. Liu, Direct patterning of rhodamine 6G molecules on mica by dip-pen nanolithography 236 (2004) 18
Zhou, Q.G., X.D. Bai, X.Y. Xue, Y.H. Ling, X.W. Chen, J. Xu and D.R. Wang, The oxidation behavior of Ce-implanted ZrN coating 236 (2004) 236
Zhou, W., see Zheng, H.Y. 236 (2004) 114
Zhu, H., L.A. Tessaroto, R. Sabia, V.A. Greenhut, M. Smith and D.E. Niesz, Chemical mechanical polishing (CMP) anisotropy in sapphire 236 (2004) 120
Zhu, Y.H., W.B. Lee, C.Y. Chung and S. To, On nanophase stability in eutectoid Zn–Al based alloy films 236 (2004) 106
Zhu, Z., and M.J. Kelley, Poly(ethylene terephthalate) surface modification by deep UV (172 nm) irradiation 236 (2004) 416

ELSEVIER

Applied Surface Science 236 (2004) V–XVII

applied surface science

www.elsevier.com/locate/apsusc

Subject Index

Alkali halides

Effect of benzotriazole derivatives on the corrosion of brass in NaCl solutions, R. Ravichandran, S. Nanjundan and N. Rajendran 236 (2004) 241

Alkali metals

Structure and scintillation properties of CsI(Tl) epitaxial layers, A. Ananenko, A. Fedorov, P. Mateychenko, V. Tarasov and Yu. Vidaj 236 (2004) 186

Alloys

Deposition of yttrium-based thin films on TA6V alloy substrates, R. Siab, G. Bonnet, J.M. Brossard and J.F. Dinhut 236 (2004) 50

On nanophase stability in eutectoid Zn–Al based alloy films, Y.H. Zhu, W.B. Lee, C.Y. Chung and S. To 236 (2004) 106

Effect of benzotriazole derivatives on the corrosion of brass in NaCl solutions, R. Ravichandran, S. Nanjundan and N. Rajendran 236 (2004) 241

Synthesis and characterisation of pack cemented aluminide coatings on metals, C. Houngninou, S. Chevalier and J.P. Larpin 236 (2004) 256

Friction and wear study of diamond-like carbon gradient coatings on Ti6Al4V substrate prepared by plasma source ion implantion beam enhanced deposition, S.-w. Jiang, B. Jiang, Y. Li, Y.-r. Li, G.-f. Yin and C.-q. Zheng 236 (2004) 285

Morphological analysis of pits formed on Al 2024-T3 in chloride aqueous solution, J.W.J. Silva, A.G. Bustamante, E.N. Codaro, R.Z. Nakazato and L.R.O. Hein 236 (2004) 356

Aluminium

On nanophase stability in eutectoid Zn–Al based alloy films, Y.H. Zhu, W.B. Lee, C.Y. Chung and S. To 236 (2004) 106

Synthesis and characterisation of pack cemented aluminide coatings on metals, C. Houngninou, S. Chevalier and J.P. Larpin 236 (2004) 256

Study of chemical dissolution of the barrier oxide layer of porous alumina films formed in oxalic acid using a re-anodizing technique, I. Vrublevsky, V. Parkoun, V. Sokol and J. Schreckenbach 236 (2004) 270

Morphological analysis of pits formed on Al 2024-T3 in chloride aqueous solution, J.W.J. Silva, A.G. Bustamante, E.N. Codaro, R.Z. Nakazato and L.R.O. Hein 236 (2004) 356

Correlation between series resistance and parameters of Al/n-Si and Al/p-Si Schottky barrier diodes, M. Siad, A. Keffous, S. Mamma, Y. Belkacem and H. Menari 236 (2004) 366

Aluminium oxide

Chemical mechanical polishing (CMP) anisotropy in sapphire, H. Zhu, L.A. Tessaroto, R. Sabia, V.A. Greenhut, M. Smith and D.E. Niesz 236 (2004) 120

Surface structure and topology in surface stabilized Co-nanoparticles with a thin Al_2O_3 amorphous layer, S. Rana, S. Ram, S. Seal and S.K. Roy 236 (2004) 141

Synthesis and characterisation of pack cemented aluminide coatings on metals, C. Houngninou, S. Chevalier and J.P. Larpin 236 (2004) 256

Study of chemical dissolution of the barrier oxide layer of porous alumina films formed in oxalic acid using a re-anodizing technique, I. Vrublevsky, V. Parkoun, V. Sokol and J. Schreckenbach 236 (2004) 270

Aluminium vanadium

Friction and wear study of diamond-like carbon gradient coatings on Ti6Al4V substrate prepared by plasma source ion implantion beam enhanced deposition, S.-w. Jiang, B. Jiang, Y. Li, Y.-r. Li, G.-f. Yin and C.-q. Zheng 236 (2004) 285

doi:10.1016/S0169-4332(04)01237-1

Ammonia

Synthesis of ammonium silicon fluoride cryptocrystals on silicon by dry etching, S. Kalem 236 (2004) 336

Annealing

Effects of molecular weight, solvent and substrate on the dewetting morphology of polystyrene films, J. Zhao, S. Jiang, Q. Wang, X. Liu, X. Ji and B. Jiang 236 (2004) 131

Photoelectron spectroscopy study of oxygen vacancy on vanadium oxides surface, Q.-H. Wu, A. Thissen, W. Jaegermann and M. Liu 236 (2004) 473

Arc evaporation

The oxidation behavior of Ce-implanted ZrN coating, Q.G. Zhou, X.D. Bai, X.Y. Xue, Y.H. Ling, X.W. Chen, J. Xu and D.R. Wang 236 (2004) 236

The electrochemical behavior of thermally oxidized CrN coatings deposited on steel by cathodic arc plasma deposition, K.-L. Chang, S.-C. Chung, S.-H. Lai and H.-C. Shih 236 (2004) 406

Atomic force microscopy

Deposition of yttrium-based thin films on TA6V alloy substrates, R. Siab, G. Bonnet, J.M. Brossard and J.F. Dinhut 236 (2004) 50

Chemical mechanical polishing (CMP) anisotropy in sapphire, H. Zhu, L.A. Tessaroto, R. Sabia, V.A. Greenhut, M. Smith and D.E. Niesz 236 (2004) 120

Effects of molecular weight, solvent and substrate on the dewetting morphology of polystyrene films, J. Zhao, S. Jiang, Q. Wang, X. Liu, X. Ji and B. Jiang 236 (2004) 131

Preparation of GaN films on ZnO buffer layers by rf magnetron sputtering, H.W. Kim and N.H. Kim 236 (2004) 192

Band line-up at the 4H-SiC/Ni interface determined with photoemission spectroscopy, M.M. Beerbom, Z. Bednarova, R. Gargagliano, Y.N. Emirov and R. Schlaf 236 (2004) 208

γ-MnO_2 nano-sieve membrane: preparation, characterization and reaction studies, L. Zhao and R. Wang 236 (2004) 217

Effect of pH on electrical and optical properties of sol–gel derived microcrystalline $Ba_{0.5}Sr_{0.5}TiO_3$ thin films, S.C. Roy, G.L. Sharma, M.C. Bhatnagar, R. Manchanda, V.R. Balakrishnan and S.B. Samanta 236 (2004) 306

Electrical and optical properties of sol–gel derived La modified $PbTiO_3$ thin films, S. Chopra, S. Sharma, T.C. Goel and R.G. Mendiratta 236 (2004) 321

Study of structure, tribological properties and growth mechanism of DLC and nitrogen-doped DLC films deposited by electrochemical technique, X. Yan, T. Xu, G. Chen, S. Yang and H. Liu 236 (2004) 328

Poly(ethylene terephthalate) surface modification by deep UV (172 nm) irradiation, Z. Zhu and M.J. Kelley 236 (2004) 416

AFM and ESEM characterisation of functionally nanostructured fibres, Q.F. Wei, X.Q. Wang and W.D. Gao 236 (2004) 456

Step melting of crystalline and amorphous lead foils due to irradiation by UV laser pulses, M. Füle, H. Horn, L. Nánai and T.F. George 236 (2004) 467

Auger electron spectroscopy

The electrochemical behavior and surface structure of titanium electrodes modified by ion beams, G.F. Huang, Z. Xie, W.Q. Huang, S.B. Yang and L.H. Zhao 236 (2004) 13

Electron irradiation effects on DES/Ge(1 0 0) at 90 K, J. Lozano, D. Early, P. Petrany, J.H. Craig Jr., P. Wang and K.R. Kimberlin 236 (2004) 25

Barium

Effect of pH on electrical and optical properties of sol–gel derived microcrystalline $Ba_{0.5}Sr_{0.5}TiO_3$ thin films, S.C. Roy, G.L. Sharma, M.C. Bhatnagar, R. Manchanda, V.R. Balakrishnan and S.B. Samanta 236 (2004) 306

Spectroscopic study of chemically stabilized dichroic thin crystal films, J. Birgerson, A. Lindsjö, M.M. Selo, M. Grehk and K. Skarp 236 (2004) 444

Benzene

Study of adsorption from binary liquid mixtures on thermally treated activated carbon, A. Świątkowski, A. Derylo-Marczewska, J. Goworek and S. Błażewicz 236 (2004) 313

Benzene and carbon monoxide co-adsorption on Pt(1 1 1): a theoretical study, P.V. Jasen, G. Brizuela, Z. Padin, E.A. Gonzalez and A. Juan 236 (2004) 394

Boron

Microstructure and properties of borocarburized 15CrNi6 steel after laser surface modification, M. Kulka and A. Pertek 236 (2004) 98

A kinetic model for the borided layers by the paste-boriding process, K. Keddam 236 (2004) 451

Carbon

Effects of the pressure on growth of carbon nanotubes by plasma-enhanced hot filament CVD at low substrate temperature, B.B. Wang, S. Lee, X.Z. Xu, S. Choi, H. Yan, B. Zhang and W. Hao 236 (2004) 6
Friction and wear study of diamond-like carbon gradient coatings on Ti6Al4V substrate prepared by plasma source ion implantion beam enhanced deposition, S.-w. Jiang, B. Jiang, Y. Li, Y.-r. Li, G.-f. Yin and C.-q. Zheng 236 (2004) 285
Study of adsorption from binary liquid mixtures on thermally treated activated carbon, A. Świątkowski, A. Deryło-Marczewska, J. Goworek and S. Błażewicz 236 (2004) 313
Study of structure, tribological properties and growth mechanism of DLC and nitrogen-doped DLC films deposited by electrochemical technique, X. Yan, T. Xu, G. Chen, S. Yang and H. Liu 236 (2004) 328
Field emission characteristics of diamond-like carbon films synthesized by electrodeposition technique, S. Gupta, M.Pal. Chowdhury and A.K. Pal 236 (2004) 426

Carbon dioxide

The influence of inhibitors molecular structure and steel microstructure on corrosion layers in CO_2 corrosion. An XPS and SEM characterization, D.A. López, W.H. Schreiner, S.R. de Sánchez and S.N. Simison 236 (2004) 77
Effect of chemisorbed surface species on the photocatalytic activity of TiO_2 nanoparticulate films, Y. Cao, W. Yang, Y. Chen, H. Du and P. Yue 236 (2004) 223

Carbon monoxide

Benzene and carbon monoxide co-adsorption on Pt(1 1 1): a theoretical study, P.V. Jasen, G. Brizuela, Z. Padin, E.A. Gonzalez and A. Juan 236 (2004) 394

Catalysis

Effect of chemisorbed surface species on the photocatalytic activity of TiO_2 nanoparticulate films, Y. Cao, W. Yang, Y. Chen, H. Du and P. Yue 236 (2004) 223
A novel dynamic kinetic model of oxygen isotopic exchange on a supported metal catalyst, A. Galdikas, D. Duprez and C. Descorme 236 (2004) 342

Cerium

The oxidation behavior of Ce-implanted ZrN coating, Q.G. Zhou, X.D. Bai, X.Y. Xue, Y.H. Ling, X.W. Chen, J. Xu and D.R. Wang 236 (2004) 236

Chemical vapour deposition

Effects of the pressure on growth of carbon nanotubes by plasma-enhanced hot filament CVD at low substrate temperature, B.B. Wang, S. Lee, X.Z. Xu, S. Choi, H. Yan, B. Zhang and W. Hao 236 (2004) 6
Influence of surface additives iodine and indium on the initial growth in copper chemical vapor deposition, T.-Y. Chang, J.-J. Tze and D.-S. Tsai 236 (2004) 165

Chromium

Microstructure and properties of borocarburized 15CrNi6 steel after laser surface modification, M. Kulka and A. Pertek 236 (2004) 98
The electrochemical behavior of thermally oxidized CrN coatings deposited on steel by cathodic arc plasma deposition, K.-L. Chang, S.-C. Chung, S.-H. Lai and H.-C. Shih 236 (2004) 406

Cobalt

Surface structure and topology in surface stabilized Co-nanoparticles with a thin Al_2O_3 amorphous layer, S. Rana, S. Ram, S. Seal and S.K. Roy 236 (2004) 141

Computer simulations

Reactivities of some thiol collectors and their interactions with Ag (+1) ion by molecular modeling, H. Yekeler and M. Yekeler 236 (2004) 435

Copper

Influence of surface additives iodine and indium on the initial growth in copper chemical vapor deposition, T.-Y. Chang, J.-J. Tze and D.-S. Tsai 236 (2004) 165
Effect of benzotriazole derivatives on the corrosion of brass in NaCl solutions, R. Ravichandran, S. Nanjundan and N. Rajendran 236 (2004) 241

Morphological analysis of pits formed on Al 2024-T3 in chloride aqueous solution, J.W.J. Silva, A.G. Bustamante, E.N. Codaro, R.Z. Nakazato and L.R.O. Hein 236 (2004) 356

Corrosion

The influence of inhibitors molecular structure and steel microstructure on corrosion layers in CO_2 corrosion. An XPS and SEM characterization, D.A. López, W.H. Schreiner, S.R. de Sánchez and S.N. Simison 236 (2004) 77
Organic sulphur-containing compounds as corrosion inhibitors for mild steel in acidic media: correlation between inhibition efficiency and chemical structure, M. Özcan, I. Dehri and M. Erbil 236 (2004) 155
Inhibition of stainless steel pitting corrosion in acidic medium by 2-mercaptobenzoxazole, S.A.M. Refaey, F. Taha and A.M. Abd El-Malak 236 (2004) 175
Effect of benzotriazole derivatives on the corrosion of brass in NaCl solutions, R. Ravichandran, S. Nanjundan and N. Rajendran 236 (2004) 241
Electrochemical synthesis of polyaniline on mild steel in acetonitrile–$LiClO_4$ and corrosion performance, T. Tüken, A.T. Özyılmaz, B. Yazıcı and M. Erbil 236 (2004) 292
Morphological analysis of pits formed on Al 2024-T3 in chloride aqueous solution, J.W.J. Silva, A.G. Bustamante, E.N. Codaro, R.Z. Nakazato and L.R.O. Hein 236 (2004) 356

Density of states

Influence of the cation nature of high sulfur content oxysulfide thin films MO_yS_z (M=W, Ti) studied by XPS, H. Martinez, A. Benayad, D. Gonbeau, P. Vinatier, B. Pecquenard and A. Levasseur 236 (2004) 377
Benzene and carbon monoxide co-adsorption on Pt(1 1 1): a theoretical study, P.V. Jasen, G. Brizuela, Z. Padin, E.A. Gonzalez and A. Juan 236 (2004) 394

Depth profiling

The electrochemical behavior and surface structure of titanium electrodes modified by ion beams, G.F. Huang, Z. Xie, W.Q. Huang, S.B. Yang and L.H. Zhao 236 (2004) 13

Diamond

Chemical mechanical polishing (CMP) anisotropy in sapphire, H. Zhu, L.A. Tessaroto, R. Sabia, V.A. Greenhut, M. Smith and D.E. Niesz 236 (2004) 120
Friction and wear study of diamond-like carbon gradient coatings on Ti6Al4V substrate prepared by plasma source ion implantation beam enhanced deposition, S.-w. Jiang, B. Jiang, Y. Li, Y.-r. Li, G.-f. Yin and C.-q. Zheng 236 (2004) 285
Field emission characteristics of diamond-like carbon films synthesized by electrodeposition technique, S. Gupta, M.Pal. Chowdhury and A.K. Pal 236 (2004) 426

Electrical microscopy

Field emission characteristics of diamond-like carbon films synthesized by electrodeposition technique, S. Gupta, M.Pal. Chowdhury and A.K. Pal 236 (2004) 426

Electrical properties

Comparison of electrical and optical parameters of Au/n-Si and Ag/n-Si Schottky barrier photodiodes, A. Keffous, M. Siad, A. Cheriet, N. Benrekaa, Y. Belkacem, H. Menari, W. Chergui and A. Dahmani 236 (2004) 42
Effect of pH on electrical and optical properties of sol–gel derived microcrystalline $Ba_{0.5}Sr_{0.5}TiO_3$ thin films, S.C. Roy, G.L. Sharma, M.C. Bhatnagar, R. Manchanda, V.R. Balakrishnan and S.B. Samanta 236 (2004) 306
Electrical and optical properties of sol–gel derived La modified $PbTiO_3$ thin films, S. Chopra, S. Sharma, T.C. Goel and R.G. Mendiratta 236 (2004) 321
Correlation between series resistance and parameters of Al/n-Si and Al/p-Si Schottky barrier diodes, M. Siad, A. Keffous, S. Mamma, Y. Belkacem and H. Menari 236 (2004) 366
The electrochemical behavior of thermally oxidized CrN coatings deposited on steel by cathodic arc plasma deposition, K.-L. Chang, S.-C. Chung, S.-H. Lai and H.-C. Shih 236 (2004) 406
Field emission characteristics of diamond-like carbon films synthesized by electrodeposition technique, S. Gupta, M.Pal. Chowdhury and A.K. Pal 236 (2004) 426

Electron diffraction

Deposition of yttrium-based thin films on TA6V alloy substrates, R. Siab, G. Bonnet, J.M. Brossard and J.F. Dinhut 236 (2004) 50

Electron microscopy

Effects of the pressure on growth of carbon nanotubes by plasma-enhanced hot fila-

ment CVD at low substrate temperature, B.B. Wang, S. Lee, X.Z. Xu, S. Choi, H. Yan, B. Zhang and W. Hao 236 (2004) 6
Deposition of yttrium-based thin films on TA6V alloy substrates, R. Siab, G. Bonnet, J.M. Brossard and J.F. Dinhut 236 (2004) 50
The influence of inhibitors molecular structure and steel microstructure on corrosion layers in CO_2 corrosion. An XPS and SEM characterization, D.A. López, W.H. Schreiner, S.R. de Sánchez and S.N. Simison 236 (2004) 77
Microstructure and properties of borocarburized 15CrNi6 steel after laser surface modification, M. Kulka and A. Pertek 236 (2004) 98
On nanophase stability in eutectoid Zn–Al based alloy films, Y.H. Zhu, W.B. Lee, C.Y. Chung and S. To 236 (2004) 106
Polarisation-independence of femtosecond laser machining of fused silica, H.Y. Zheng, W. Zhou, H.X. Qian, T.T. Tan and G.C. Lim 236 (2004) 114
Influence of surface additives iodine and indium on the initial growth in copper chemical vapor deposition, T.-Y. Chang, J.-J. Tze and D.-S. Tsai 236 (2004) 165
Inhibition of stainless steel pitting corrosion in acidic medium by 2-mercaptobenzoxazole, S.A.M. Refaey, F. Taha and A.M. Abd El-Malak 236 (2004) 175
Structure and scintillation properties of CsI(Tl) epitaxial layers, A. Ananenko, A. Fedorov, P. Mateychenko, V. Tarasov and Yu. Vidaj 236 (2004) 186
Synthesis and characterisation of pack cemented aluminide coatings on metals, C. Houngninou, S. Chevalier and J.P. Larpin 236 (2004) 256
Friction and wear study of diamond-like carbon gradient coatings on Ti6Al4V substrate prepared by plasma source ion implantion beam enhanced deposition, S.-w. Jiang, B. Jiang, Y. Li, Y.-r. Li, G.-f. Yin and C.-q. Zheng 236 (2004) 285
Synthesis of ammonium silicon fluoride cryptocrystals on silicon by dry etching, S. Kalem 236 (2004) 336
Morphological analysis of pits formed on Al 2024-T3 in chloride aqueous solution, J.W.J. Silva, A.G. Bustamante, E.N. Codaro, R.Z. Nakazato and L.R.O. Hein 236 (2004) 356
AFM and ESEM characterisation of functionally nanostructured fibres, Q.F. Wei, X.Q. Wang and W.D. Gao 236 (2004) 456

Electron properties

Influence of surface additives iodine and indium on the initial growth in copper chemical vapor deposition, T.-Y. Chang, J.-J. Tze and D.-S. Tsai 236 (2004) 165

Electron stimulated desorption

Electron irradiation effects on DES/Ge(1 0 0) at 90 K, J. Lozano, D. Early, P. Petrany, J.H. Craig Jr., P. Wang and K.R. Kimberlin 236 (2004) 25

Ellipsometry

Niobium zirconium nitride sputter-deposited protective coatings, M. Debessai, P. Filip and S.M. Aouadi 236 (2004) 63

Epitaxy

Structure and scintillation properties of CsI(Tl) epitaxial layers, A. Ananenko, A. Fedorov, P. Mateychenko, V. Tarasov and Yu. Vidaj 236 (2004) 186

Etching

Synthesis of ammonium silicon fluoride cryptocrystals on silicon by dry etching, S. Kalem 236 (2004) 336

Field electron microscopy

Nanometer size recrystallization grain induced by applied electric field, J. Dou, W. Shang and Z. Chen 236 (2004) 57

Field emission

Field emission characteristics of diamond-like carbon films synthesized by electrodeposition technique, S. Gupta, M.Pal. Chowdhury and A.K. Pal 236 (2004) 426

Gallium

Preparation of GaN films on ZnO buffer layers by rf magnetron sputtering, H.W. Kim and N.H. Kim 236 (2004) 192

Germanium

Electron irradiation effects on DES/Ge(1 0 0) at 90 K, J. Lozano, D. Early, P. Petrany, J.H. Craig Jr., P. Wang and K.R. Kimberlin 236 (2004) 25

Glass

Polarisation-independence of femtosecond laser machining of fused silica, H.Y. Zheng, W. Zhou, H.X. Qian, T.T. Tan and G.C. Lim 236 (2004) 114

Gold

Comparison of electrical and optical parameters of Au/n-Si and Ag/n-Si Schottky barrier photodiodes, A. Keffous, M. Siad, A. Cheriet, N. Benrekaa, Y. Belkacem, H. Menari, W. Chergui and A. Dahmani 236 (2004) 42

Halogenides

Synthesis of ammonium silicon fluoride cryptocrystals on silicon by dry etching, S. Kalem 236 (2004) 336

Halogens

Influence of surface additives iodine and indium on the initial growth in copper chemical vapor deposition, T.-Y. Chang, J.-J. Tze and D.-S. Tsai 236 (2004) 165

Hydrides

Electrochemically induced switching in SmH_x thin films, P. Kumar and L.K. Malhotra 236 (2004) 461

Hydrocarbons

Effect of benzotriazole derivatives on the corrosion of brass in NaCl solutions, R. Ravichandran, S. Nanjundan and N. Rajendran 236 (2004) 241

Study of adsorption from binary liquid mixtures on thermally treated activated carbon, A. Świątkowski, A. Deryło-Marczewska, J. Goworek and S. Błażewicz 236 (2004) 313

Hydrogen

The electrochemical behavior and surface structure of titanium electrodes modified by ion beams, G.F. Huang, Z. Xie, W.Q. Huang, S.B. Yang and L.H. Zhao 236 (2004) 13

Band line-up at the 4H-SiC/Ni interface determined with photoemission spectroscopy, M.M. Beerbom, Z. Bednarova, R. Gargagliano, Y.N. Emirov and R. Schlaf 236 (2004) 208

Indium

Nanometer size recrystallization grain induced by applied electric field, J. Dou, W. Shang and Z. Chen 236 (2004) 57

Influence of surface additives iodine and indium on the initial growth in copper chemical vapor deposition, T.-Y. Chang, J.-J. Tze and D.-S. Tsai 236 (2004) 165

Structure and scintillation properties of CsI(Tl) epitaxial layers, A. Ananenko, A. Fedorov, P. Mateychenko, V. Tarasov and Yu. Vidaj 236 (2004) 186

Infrared spectroscopy

Effect of chemisorbed surface species on the photocatalytic activity of TiO_2 nanoparticulate films, Y. Cao, W. Yang, Y. Chen, H. Du and P. Yue 236 (2004) 223

Effect of benzotriazole derivatives on the corrosion of brass in NaCl solutions, R. Ravichandran, S. Nanjundan and N. Rajendran 236 (2004) 241

Plasma surface modification of polystyrene and polyethylene, S. Guruvenket, G. Mohan Rao, M. Komath and A.M. Raichur 236 (2004) 278

Study of structure, tribological properties and growth mechanism of DLC and nitrogen-doped DLC films deposited by electrochemical technique, X. Yan, T. Xu, G. Chen, S. Yang and H. Liu 236 (2004) 328

Synthesis of ammonium silicon fluoride cryptocrystals on silicon by dry etching, S. Kalem 236 (2004) 336

Field emission characteristics of diamond-like carbon films synthesized by electrodeposition technique, S. Gupta, M.Pal. Chowdhury and A.K. Pal 236 (2004) 426

Interfaces

An XPS study of laser-fabricated polyimide/titanium interfaces, D.G. Georgiev, R.J. Baird, G. Newaz, G. Auner, R. Witte and H. Herfurth 236 (2004) 71

Band line-up at the 4H-SiC/Ni interface determined with photoemission spectroscopy, M.M. Beerbom, Z. Bednarova, R. Gargagliano, Y.N. Emirov and R. Schlaf 236 (2004) 208

Ion bombardment

The electrochemical behavior and surface structure of titanium electrodes modified by ion beams, G.F. Huang, Z. Xie, W.Q. Huang, S.B. Yang and L.H. Zhao 236 (2004) 13

Ion implantation

The electrochemical behavior and surface structure of titanium electrodes modified by ion beams, G.F. Huang, Z. Xie, W.Q. Huang, S.B. Yang and L.H. Zhao 236 (2004) 13

The oxidation behavior of Ce-implanted ZrN coating, Q.G. Zhou, X.D. Bai, X.Y. Xue,

Y.H. Ling, X.W. Chen, J. Xu and D.R. Wang 236 (2004) 236
Friction and wear study of diamond-like carbon gradient coatings on Ti6Al4V substrate prepared by plasma source ion implantation beam enhanced deposition, S.-w. Jiang, B. Jiang, Y. Li, Y.-r. Li, G.-f. Yin and C.-q. Zheng 236 (2004) 285

Iron

Synthesis and characterisation of pack cemented aluminide coatings on metals, C. Houngninou, S. Chevalier and J.P. Larpin 236 (2004) 256
A kinetic model for the borided layers by the paste-boriding process, M. Keddam 236 (2004) 451

Langmuir blogett structure

Quantitative analysis and thickness dependence study of Langmuir-Blodgett films of functionalized platinum nanoparticles by X-ray photoelectron spectroscopy, F. Raynal, A. Etcheberry, C. Reynaud and H. Perez 236 (2004) 198

Lanthanum

Electrical and optical properties of sol–gel derived La modified $PbTiO_3$ thin films, S. Chopra, S. Sharma, T.C. Goel and R.G. Mendiratta 236 (2004) 321

Laser processing

Determination of the refractive index depth profile of an UV-laser generated waveguide in a planar polymer chip, M.A. Shams-el-Din, C. Wochnowski, S. Metev, A.A. Hamza and W. Jüptner 236 (2004) 31
Microstructure and properties of borocarburized 15CrNi6 steel after laser surface modification, M. Kulka and A. Pertek 236 (2004) 98
Polarisation-independence of femtosecond laser machining of fused silica, H.Y. Zheng, W. Zhou, H.X. Qian, T.T. Tan and G.C. Lim 236 (2004) 114
Step melting of crystalline and amorphous lead foils due to irradiation by UV laser pulses, M. Füle, H. Horn, L. Nánai and T.F. George 236 (2004) 467

Lead

Electrical and optical properties of sol–gel derived La modified $PbTiO_3$ thin films, S. Chopra, S. Sharma, T.C. Goel and R.G. Mendiratta 236 (2004) 321

Loud

Step melting of crystalline and amorphous lead foils due to irradiation by UV laser pulses, M. Füle, H. Horn, L. Nánai and T.F. George 236 (2004) 467

Luminescence

White emission via electroplex formation at poly(*N*-vinylcarbazole)/2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline interface, Y.-M. Wang, F. Teng, Z. Xu, Y.-B. Hou, S.-Y. Yang, L. Qian, T. Zhang and D.-A. Liu 236 (2004) 251

Manganese

γ-MnO_2 nano-sieve membrane: preparation, characterization and reaction studies, L. Zhao and R. Wang 236 (2004) 217

Molybdenum

Synthesis and characterisation of pack cemented aluminide coatings on metals, C. Houngninou, S. Chevalier and J.P. Larpin 236 (2004) 256
Influence of the cation nature of high sulfur content oxysulfide thin films MO_yS_z (M=W, Ti) studied by XPS, H. Martinez, A. Benayad, D. Gonbeau, P. Vinatier, B. Pecquenard and A. Levasseur 236 (2004) 377

Nanostructures

Effects of the pressure on growth of carbon nanotubes by plasma-enhanced hot filament CVD at low substrate temperature, B.B. Wang, S. Lee, X.Z. Xu, S. Choi, H. Yan, B. Zhang and W. Hao 236 (2004) 6
Direct patterning of rhodamine 6G molecules on mica by dip-pen nanolithography, H. Zhou, Z. Li, A. Wu, G. Wei and Z. Liu 236 (2004) 18
Surface structure and topology in surface stabilized Co-nanoparticles with a thin Al_2O_3 amorphous layer, S. Rana, S. Ram, S. Seal and S.K. Roy 236 (2004) 141
Quantitative analysis and thickness dependence study of Langmuir-Blodgett films of functionalized platinum nanoparticles by X-ray photoelectron spectroscopy, F. Raynal, A. Etcheberry, C. Reynaud and H. Perez 236 (2004) 198
Effect of chemisorbed surface species on the photocatalytic activity of TiO_2 nanoparticulate films, Y. Cao, W. Yang, Y. Chen, H. Du and P. Yue 236 (2004) 223

AFM and ESEM characterisation of functionally nanostructured fibres, Q.F. Wei, X.Q. Wang and W.D. Gao 236 (2004) 456

Nickel

Band line-up at the 4H-SiC/Ni interface determined with photoemission spectroscopy, M.M. Beerbom, Z. Bednarova, R. Gargagliano, Y.N. Emirov and R. Schlaf 236 (2004) 208

Niobium

Niobium zirconium nitride sputter-deposited protective coatings, M. Debessai, P. Filip and S.M. Aouadi 236 (2004) 63

Nitrides

Niobium zirconium nitride sputter-deposited protective coatings, M. Debessai, P. Filip and S.M. Aouadi 236 (2004) 63
Microstructure and properties of borocarburized 15CrNi6 steel after laser surface modification, M. Kulka and A. Pertek 236 (2004) 98
Preparation of GaN films on ZnO buffer layers by rf magnetron sputtering, H.W. Kim and N.H. Kim 236 (2004) 192
The oxidation behavior of Ce-implanted ZrN coating, Q.G. Zhou, X.D. Bai, X.Y. Xue, Y.H. Ling, X.W. Chen, J. Xu and D.R. Wang 236 (2004) 236
Study of structure, tribological properties and growth mechanism of DLC and nitrogen-doped DLC films deposited by electrochemical technique, X. Yan, T. Xu, G. Chen, S. Yang and H. Liu 236 (2004) 328
The electrochemical behavior of thermally oxidized CrN coatings deposited on steel by cathodic arc plasma deposition, K.-L. Chang, S.-C. Chung, S.-H. Lai and H.-C. Shih 236 (2004) 406

Optical properties

Determination of the refractive index depth profile of an UV-laser generated waveguide in a planar polymer chip, M.A. Shams-el-Din, C. Wochnowski, S. Metev, A.A. Hamza and W. Jüptner 236 (2004) 31
Effect of pH on electrical and optical properties of sol–gel derived microcrystalline $Ba_{0.5}Sr_{0.5}TiO_3$ thin films, S.C. Roy, G.L. Sharma, M.C. Bhatnagar, R. Manchanda, V.R. Balakrishnan and S.B. Samanta 236 (2004) 306
Electrical and optical properties of sol–gel derived La modified $PbTiO_3$ thin films, S. Chopra, S. Sharma, T.C. Goel and R.G. Mendiratta 236 (2004) 321
Electrochemically induced switching in SmH_x thin films, P. Kumar and L.K. Malhotra 236 (2004) 461

Organic substances

Direct patterning of rhodamine 6G molecules on mica by dip-pen nanolithography, H. Zhou, Z. Li, A. Wu, G. Wei and Z. Liu 236 (2004) 18

Oxidation

The oxidation behavior of Ce-implanted ZrN coating, Q.G. Zhou, X.D. Bai, X.Y. Xue, Y.H. Ling, X.W. Chen, J. Xu and D.R. Wang 236 (2004) 236
Study of chemical dissolution of the barrier oxide layer of porous alumina films formed in oxalic acid using a re-anodizing technique, I. Vrublevsky, V. Parkoun, V. Sokol and J. Schreckenbach 236 (2004) 270
The electrochemical behavior of thermally oxidized CrN coatings deposited on steel by cathodic arc plasma deposition, K.-L. Chang, S.-C. Chung, S.-H. Lai and H.-C. Shih 236 (2004) 406

Oxides

Deposition of yttrium-based thin films on TA6V alloy substrates, R. Siab, G. Bonnet, J.M. Brossard and J.F. Dinhut 236 (2004) 50
An XPS study of laser-fabricated polyimide/titanium interfaces, D.G. Georgiev, R.J. Baird, G. Newaz, G. Auner, R. Witte and H. Herfurth 236 (2004) 71
γ-MnO_2 nano-sieve membrane: preparation, characterization and reaction studies, L. Zhao and R. Wang 236 (2004) 217
Effect of pH on electrical and optical properties of sol–gel derived microcrystalline $Ba_{0.5}Sr_{0.5}TiO_3$ thin films, S.C. Roy, G.L. Sharma, M.C. Bhatnagar, R. Manchanda, V.R. Balakrishnan and S.B. Samanta 236 (2004) 306
Electrical and optical properties of sol–gel derived La modified $PbTiO_3$ thin films, S. Chopra, S. Sharma, T.C. Goel and R.G. Mendiratta 236 (2004) 321
Photoelectron spectroscopy study of oxygen vacancy on vanadium oxides surface, Q.-H. Wu, A. Thissen, W. Jaegermann and M. Liu 236 (2004) 473

Oxides sulphides

Influence of the cation nature of high sulfur content oxysulfide thin films MO_xS_z

(M=W, Ti) studied by XPS, H. Martinez, A. Benayad, D. Gonbeau, P. Vinatier, B. Pecquenard and A. Levasseur 236 (2004) 377

Palladium

Electrochemically induced switching in SmH_x thin films, P. Kumar and L.K. Malhotra 236 (2004) 461

Phase transition

Surface structure and topology in surface stabilized Co-nanoparticles with a thin Al_2O_3 amorphous layer, S. Rana, S. Ram, S. Seal and S.K. Roy 236 (2004) 141

Photochemistry

Effect of chemisorbed surface species on the photocatalytic activity of TiO_2 nanoparticulate films, Y. Cao, W. Yang, Y. Chen, H. Du and P. Yue 236 (2004) 223

Poly(ethylene terephthalate) surface modification by deep UV (172 nm) irradiation, Z. Zhu and M.J. Kelley 236 (2004) 416

Photoelectron spectroscopy

The electrochemical behavior and surface structure of titanium electrodes modified by ion beams, G.F. Huang, Z. Xie, W.Q. Huang, S.B. Yang and L.H. Zhao 236 (2004) 13

Niobium zirconium nitride sputter-deposited protective coatings, M. Debessai, P. Filip and S.M. Aouadi 236 (2004) 63

An XPS study of laser-fabricated polyimide/titanium interfaces, D.G. Georgiev, R.J. Baird, G. Newaz, G. Auner, R. Witte and H. Herfurth 236 (2004) 71

The influence of inhibitors molecular structure and steel microstructure on corrosion layers in CO_2 corrosion. An XPS and SEM characterization, D.A. López, W.H. Schreiner, S.R. de Sánchez and S.N. Simison 236 (2004) 77

Surface structure and topology in surface stabilized Co-nanoparticles with a thin Al_2O_3 amorphous layer, S. Rana, S. Ram, S. Seal and S.K. Roy 236 (2004) 141

Influence of surface additives iodine and indium on the initial growth in copper chemical vapor deposition, T.-Y. Chang, J.-J. Tze and D.-S. Tsai 236 (2004) 165

Quantitative analysis and thickness dependence study of Langmuir-Blodgett films of functionalized platinum nanoparticles by X-ray photoelectron spectroscopy, F. Raynal, A. Etcheberry, C. Reynaud and H. Perez 236 (2004) 198

Band line-up at the 4H-SiC/Ni interface determined with photoemission spectroscopy, M.M. Beerbom, Z. Bednarova, R. Gargagliano, Y.N. Emirov and R. Schlaf 236 (2004) 208

Effect of chemisorbed surface species on the photocatalytic activity of TiO_2 nanoparticulate films, Y. Cao, W. Yang, Y. Chen, H. Du and P. Yue 236 (2004) 223

The oxidation behavior of Ce-implanted ZrN coating, Q.G. Zhou, X.D. Bai, X.Y. Xue, Y.H. Ling, X.W. Chen, J. Xu and D.R. Wang 236 (2004) 236

Influence of the cation nature of high sulfur content oxysulfide thin films MO_xS_z (M=W, Ti) studied by XPS, H. Martinez, A. Benayad, D. Gonbeau, P. Vinatier, B. Pecquenard and A. Levasseur 236 (2004) 377

The electrochemical behavior of thermally oxidized CrN coatings deposited on steel by cathodic arc plasma deposition, K.-L. Chang, S.-C. Chung, S.-H. Lai and H.-C. Shih 236 (2004) 406

Poly(ethylene terephthalate) surface modification by deep UV (172 nm) irradiation, Z. Zhu and M.J. Kelley 236 (2004) 416

Spectroscopic study of chemically stabilized dichroic thin crystal films, J. Birgerson, A. Lindsjö, M.M. Selo, M. Grehk and K. Skarp 236 (2004) 444

Photoelectron spectroscopy study of oxygen vacancy on vanadium oxides surface, Q.-H. Wu, A. Thissen, W. Jaegermann and M. Liu 236 (2004) 473

Photovoltaic effects

Comparison of electrical and optical parameters of Au/n-Si and Ag/n-Si Schottky barrier photodiodes, A. Keffous, M. Siad, A. Cheriet, N. Benrekaa, Y. Belkacem, H. Menari, W. Chergui and A. Dahmani 236 (2004) 42

Plasma processing

Effects of the pressure on growth of carbon nanotubes by plasma-enhanced hot filament CVD at low substrate temperature, B.B. Wang, S. Lee, X.Z. Xu, S. Choi, H. Yan, B. Zhang and W. Hao 236 (2004) 6

Plasma surface modification of polystyrene and polyethylene, S. Guruvenket, G. Mohan Rao, M. Komath and A.M. Raichur 236 (2004) 278

Friction and wear study of diamond-like carbon gradient coatings on Ti6Al4V substrate prepared by plasma source ion implantion beam enhanced deposition, S.-w. Jiang, B. Jiang, Y. Li, Y.-r. Li, G.-f. Yin and C.-q. Zheng 236 (2004) 285

Platinium

Quantitative analysis and thickness dependence study of Langmuir-Blodgett films of functionalized platinum nanoparticles by X-ray photoelectron spectroscopy, F. Raynal, A. Etcheberry, C. Reynaud and H. Perez 236 (2004) 198

Benzene and carbon monoxide co-adsorption on Pt(1 1 1): a theoretical study, P.V. Jasen, G. Brizuela, Z. Padin, E.A. Gonzalez and A. Juan 236 (2004) 394

Polymers

Determination of the refractive index depth profile of an UV-laser generated waveguide in a planar polymer chip, M.A. Shams-el-Din, C. Wochnowski, S. Metev, A.A. Hamza and W. Jüptner 236 (2004) 31

An XPS study of laser-fabricated polyimide/titanium interfaces, D.G. Georgiev, R.J. Baird, G. Newaz, G. Auner, R. Witte and H. Herfurth 236 (2004) 71

Effects of molecular weight, solvent and substrate on the dewetting morphology of polystyrene films, J. Zhao, S. Jiang, Q. Wang, X. Liu, X. Ji and B. Jiang 236 (2004) 131

White emission via electroplex formation at poly(*N*-vinylcarbazole)/2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline interface, Y.-M. Wang, F. Teng, Z. Xu, Y.-B. Hou, S.-Y. Yang, L. Qian, T. Zhang and D.-A. Liu 236 (2004) 251

Plasma surface modification of polystyrene and polyethylene, S. Guruvenket, G. Mohan Rao, M. Komath and A.M. Raichur 236 (2004) 278

Electrochemical synthesis of polyaniline on mild steel in acetonitrile–$LiClO_4$ and corrosion performance, T. Tüken, A.T. Özyılmaz, B. Yazıcı and M. Erbil 236 (2004) 292

Poly(ethylene terephthalate) surface modification by deep UV (172 nm) irradiation, Z. Zhu and M.J. Kelley 236 (2004) 416

AFM and ESEM characterisation of functionally nanostructured fibres, Q.F. Wei, X.Q. Wang and W.D. Gao 236 (2004) 456

Raman scattering

Friction and wear study of diamond-like carbon gradient coatings on Ti6Al4V substrate prepared by plasma source ion implantion beam enhanced deposition, S.-w. Jiang, B. Jiang, Y. Li, Y.-r. Li, G.-f. Yin and C.-q. Zheng 236 (2004) 285

Field emission characteristics of diamond-like carbon films synthesized by electrodeposition technique, S. Gupta, M.Pal. Chowdhury and A.K. Pal 236 (2004) 426

Scanning probe microscopy

Direct patterning of rhodamine 6G molecules on mica by dip-pen nanolithography, H. Zhou, Z. Li, A. Wu, G. Wei and Z. Liu 236 (2004) 18

Scanning tunneling microscopy

Effect of ozone cleaning on Pt/Au and W/Pt/Au Schottky contacts to n-type ZnO, K. Ip, B.P. Gila, A.H. Onstine, E.S. Lambers, Y.W. Heo, K.H. Baik, D.P. Norton, S.J. Pearton, S. Kim, J.R. LaRoche and F. Ren 236 (2004) 387

Schottky barrier

Comparison of electrical and optical parameters of Au/n-Si and Ag/n-Si Schottky barrier photodiodes, A. Keffous, M. Siad, A. Cheriet, N. Benrekaa, Y. Belkacem, H. Menari, W. Chergui and A. Dahmani 236 (2004) 42

Correlation between series resistance and parameters of Al/n-Si and Al/p-Si Schottky barrier diodes, M. Siad, A. Keffous, S. Mamma, Y. Belkacem and H. Menari 236 (2004) 366

Semarium

Electrochemically induced switching in SmH_x thin films, P. Kumar and L.K. Malhotra 236 (2004) 461

Silane

Electron irradiation effects on DES/Ge(1 0 0) at 90 K, J. Lozano, D. Early, P. Petrany, J.H. Craig Jr., P. Wang and K.R. Kimberlin 236 (2004) 25

Silicon

Comparison of electrical and optical parameters of Au/n-Si and Ag/n-Si Schottky barrier photodiodes, A. Keffous, M. Siad, A. Cheriet, N. Benrekaa, Y. Belkacem, H. Menari, W. Chergui and A. Dahmani 236 (2004) 42

Synthesis of ammonium silicon fluoride cryptocrystals on silicon by dry etching, S. Kalem 236 (2004) 336

Correlation between series resistance and parameters of Al/n-Si and Al/p-Si Schottky barrier diodes, M. Siad, A. Keffous, S. Mamma, Y. Belkacem and H. Menari 236 (2004) 366

Silicon carbide

Band line-up at the 4H-SiC/Ni interface determined with photoemission spectroscopy, M.M. Beerbom, Z. Bednarova, R. Gargagliano, Y.N. Emirov and R. Schlaf 236 (2004) 208

Silver

Comparison of electrical and optical parameters of Au/n-Si and Ag/n-Si Schottky barrier photodiodes, A. Keffous, M. Siad, A. Cheriet, N. Benrekaa, Y. Belkacem, H. Menari, W. Chergui and A. Dahmani 236 (2004) 42

Reactivities of some thiol collectors and their interactions with Ag (+1) ion by molecular modeling, H. Yekeler and M. Yekeler 236 (2004) 435

SIMS

Friction and wear study of diamond-like carbon gradient coatings on Ti6Al4V substrate prepared by plasma source ion implantion beam enhanced deposition, S.-w. Jiang, B. Jiang, Y. Li, Y.-r. Li, G.-f. Yin and C.-q. Zheng 236 (2004) 285

Poly(ethylene terephthalate) surface modification by deep UV (172 nm) irradiation, Z. Zhu and M.J. Kelley 236 (2004) 416

Spectroscopic study of chemically stabilized dichroic thin crystal films, J. Birgerson, A. Lindsjö, M.M. Selo, M. Grehk and K. Skarp 236 (2004) 444

Sputter deposition

Niobium zirconium nitride sputter-deposited protective coatings, M. Debessai, P. Filip and S.M. Aouadi 236 (2004) 63

Preparation of GaN films on ZnO buffer layers by rf magnetron sputtering, H.W. Kim and N.H. Kim 236 (2004) 192

Influence of the cation nature of high sulfur content oxysulfide thin films MO_yS_z (M=W, Ti) studied by XPS, H. Martinez, A. Benayad, D. Gonbeau, P. Vinatier, B. Pecquenard and A. Levasseur 236 (2004) 377

Sputtering

The electrochemical behavior and surface structure of titanium electrodes modified by ion beams, G.F. Huang, Z. Xie, W.Q. Huang, S.B. Yang and L.H. Zhao 236 (2004) 13

AFM and ESEM characterisation of functionally nanostructured fibres, Q.F. Wei, X.Q. Wang and W.D. Gao 236 (2004) 456

Steel

The influence of inhibitors molecular structure and steel microstructure on corrosion layers in CO_2 corrosion. An XPS and SEM characterization, D.A. López, W.H. Schreiner, S.R. de Sánchez and S.N. Simison 236 (2004) 77

Microstructure and properties of borocarburized 15CrNi6 steel after laser surface modification, M. Kulka and A. Pertek 236 (2004) 98

Organic sulphur-containing compounds as corrosion inhibitors for mild steel in acidic media: correlation between inhibition efficiency and chemical structure, M. Özcan, I. Dehri and M. Erbil 236 (2004) 155

Inhibition of stainless steel pitting corrosion in acidic medium by 2-mercaptobenzoxazole, S.A.M. Refaey, F. Taha and A.M. Abd El-Malak 236 (2004) 175

Electrochemical synthesis of polyaniline on mild steel in acetonitrile–$LiClO_4$ and corrosion performance, T. Tüken, A.T. Özyılmaz, B. Yazıcı and M. Erbil 236 (2004) 292

The electrochemical behavior of thermally oxidized CrN coatings deposited on steel by cathodic arc plasma deposition, K.-L. Chang, S.-C. Chung, S.-H. Lai and H.-C. Shih 236 (2004) 406

Strontium

Effect of pH on electrical and optical properties of sol–gel derived microcrystalline $Ba_{0.5}Sr_{0.5}TiO_3$ thin films, S.C. Roy, G.L. Sharma, M.C. Bhatnagar, R. Manchanda, V.R. Balakrishnan and S.B. Samanta 236 (2004) 306

Sulphides

Reactivities of some thiol collectors and their interactions with Ag (+1) ion by molecular modeling, H. Yekeler and M. Yekeler 236 (2004) 435

Sulphur

Organic sulphur-containing compounds as corrosion inhibitors for mild steel in acidic media: correlation between inhibition efficiency and chemical structure, M. Özcan, I. Dehri and M. Erbil 236 (2004) 155

Surface diffusion

A novel dynamic kinetic model of oxygen isotopic exchange on a supported metal

catalyst, A. Galdikas, D. Duprez and C. Descorme 236 (2004) 342

Surface morphology

Influence of surface additives iodine and indium on the initial growth in copper chemical vapor deposition, T.-Y. Chang, J.-J. Tze and D.-S. Tsai 236 (2004) 165
Poly(ethylene terephthalate) surface modification by deep UV (172 nm) irradiation, Z. Zhu and M.J. Kelley 236 (2004) 416
AFM and ESEM characterisation of functionally nanostructured fibres, Q.F. Wei, X.Q. Wang and W.D. Gao 236 (2004) 456

Surface roughness

Effects of molecular weight, solvent and substrate on the dewetting morphology of polystyrene films, J. Zhao, S. Jiang, Q. Wang, X. Liu, X. Ji and B. Jiang 236 (2004) 131

Thermal desorption

Electron irradiation effects on DES/Ge(1 0 0) at 90 K, J. Lozano, D. Early, P. Petrany, J.H. Craig Jr., P. Wang and K.R. Kimberlin 236 (2004) 25

Thin films

Niobium zirconium nitride sputter-deposited protective coatings, M. Debessai, P. Filip and S.M. Aouadi 236 (2004) 63
Influence of surface additives iodine and indium on the initial growth in copper chemical vapor deposition, T.-Y. Chang, J.-J. Tze and D.-S. Tsai 236 (2004) 165
Preparation of GaN films on ZnO buffer layers by rf magnetron sputtering, H.W. Kim and N.H. Kim 236 (2004) 192
The oxidation behavior of Ce-implanted ZrN coating, Q.G. Zhou, X.D. Bai, X.Y. Xue, Y.H. Ling, X.W. Chen, J. Xu and D.R. Wang 236 (2004) 236
Friction and wear study of diamond-like carbon gradient coatings on Ti6Al4V substrate prepared by plasma source ion implantion beam enhanced deposition, S.-w. Jiang, B. Jiang, Y. Li, Y.-r. Li, G.-f. Yin and C.-q. Zheng 236 (2004) 285
Electrical and optical properties of sol–gel derived La modified $PbTiO_3$ thin films, S. Chopra, S. Sharma, T.C. Goel and R.G. Mendiratta 236 (2004) 321
Influence of the cation nature of high sulfur content oxysulfide thin films MO_yS_z (M=W, Ti) studied by XPS, H. Martinez, A. Benayad, D. Gonbeau, P. Vinatier, B. Pecquenard and A. Levasseur 236 (2004) 377
The electrochemical behavior of thermally oxidized CrN coatings deposited on steel by cathodic arc plasma deposition, K.-L. Chang, S.-C. Chung, S.-H. Lai and H.-C. Shih 236 (2004) 406

Tin oxide

Effect of ozone cleaning on Pt/Au and W/Pt/Au Schottky contacts to n-type ZnO, K. Ip, B.P. Gila, A.H. Onstine, E.S. Lambers, Y.W. Heo, K.H. Baik, D.P. Norton, S.J. Pearton, S. Kim, J.R. LaRoche and F. Ren 236 (2004) 387

Titanium

The electrochemical behavior and surface structure of titanium electrodes modified by ion beams, G.F. Huang, Z. Xie, W.Q. Huang, S.B. Yang and L.H. Zhao 236 (2004) 13
Deposition of yttrium-based thin films on TA6V alloy substrates, R. Siab, G. Bonnet, J.M. Brossard and J.F. Dinhut 236 (2004) 50
An XPS study of laser-fabricated polyimide/titanium interfaces, D.G. Georgiev, R.J. Baird, G. Newaz, G. Auner, R. Witte and H. Herfurth 236 (2004) 71
Friction and wear study of diamond-like carbon gradient coatings on Ti6Al4V substrate prepared by plasma source ion implantion beam enhanced deposition, S.-w. Jiang, B. Jiang, Y. Li, Y.-r. Li, G.-f. Yin and C.-q. Zheng 236 (2004) 285
Effect of pH on electrical and optical properties of sol–gel derived microcrystalline $Ba_{0.5}Sr_{0.5}TiO_3$ thin films, S.C. Roy, G.L. Sharma, M.C. Bhatnagar, R. Manchanda, V.R. Balakrishnan and S.B. Samanta 236 (2004) 306
Electrical and optical properties of sol–gel derived La modified $PbTiO_3$ thin films, S. Chopra, S. Sharma, T.C. Goel and R.G. Mendiratta 236 (2004) 321
Influence of the cation nature of high sulfur content oxysulfide thin films MO_yS_z (M=W, Ti) studied by XPS, H. Martinez, A. Benayad, D. Gonbeau, P. Vinatier, B. Pecquenard and A. Levasseur 236 (2004) 377

Titanium oxide

Effect of chemisorbed surface species on the photocatalytic activity of TiO_2 nanoparticulate films, Y. Cao, W. Yang, Y. Chen, H. Du and P. Yue 236 (2004) 223

ToF techniques

Poly(ethylene terephthalate) surface modification by deep UV (172 nm) irradiation, Z. Zhu and M.J. Kelley 236 (2004) 416

Spectroscopic study of chemically stabilized dichroic thin crystal films, J. Birgerson, A. Lindsjö, M.M. Selo, M. Grehk and K. Skarp 236 (2004) 444

Vanadium

Photoelectron spectroscopy study of oxygen vacancy on vanadium oxides surface, Q.-H. Wu, A. Thissen, W. Jaegermann and M. Liu 236 (2004) 473

X-ray diffraction

Deposition of yttrium-based thin films on TA6V alloy substrates, R. Siab, G. Bonnet, J.M. Brossard and J.F. Dinhut 236 (2004) 50

On nanophase stability in eutectoid Zn–Al based alloy films, Y.H. Zhu, W.B. Lee, C.Y. Chung and S. To 236 (2004) 106

Surface structure and topology in surface stabilized Co-nanoparticles with a thin Al_2O_3 amorphous layer, S. Rana, S. Ram, S. Seal and S.K. Roy 236 (2004) 141

Structure and scintillation properties of CsI(Tl) epitaxial layers, A. Ananenko, A. Fedorov, P. Mateychenko, V. Tarasov and Yu. Vidaj 236 (2004) 186

Preparation of GaN films on ZnO buffer layers by rf magnetron sputtering, H.W. Kim and N.H. Kim 236 (2004) 192

γ-MnO_2 nano-sieve membrane: preparation, characterization and reaction studies, L. Zhao and R. Wang 236 (2004) 217

The oxidation behavior of Ce-implanted ZrN coating, Q.G. Zhou, X.D. Bai, X.Y. Xue, Y.H. Ling, X.W. Chen, J. Xu and D.R. Wang 236 (2004) 236

Synthesis and characterisation of pack cemented aluminide coatings on metals, C. Houngninou, S. Chevalier and J.P. Larpin 236 (2004) 256

Effect of pH on electrical and optical properties of sol–gel derived microcrystalline $Ba_{0.5}Sr_{0.5}TiO_3$ thin films, S.C. Roy, G.L. Sharma, M.C. Bhatnagar, R. Manchanda, V.R. Balakrishnan and S.B. Samanta 236 (2004) 306

Electrical and optical properties of sol–gel derived La modified $PbTiO_3$ thin films, S. Chopra, S. Sharma, T.C. Goel and R.G. Mendiratta 236 (2004) 321

Synthesis of ammonium silicon fluoride cryptocrystals on silicon by dry etching, S. Kalem 236 (2004) 336

The electrochemical behavior of thermally oxidized CrN coatings deposited on steel by cathodic arc plasma deposition, K.-L. Chang, S.-C. Chung, S.-H. Lai and H.-C. Shih 236 (2004) 406

X-ray spectroscopy

Inhibition of stainless steel pitting corrosion in acidic medium by 2-mercaptobenzoxazole, S.A.M. Refaey, F. Taha and A.M. Abd El-Malak 236 (2004) 175

Synthesis and characterisation of pack cemented aluminide coatings on metals, C. Houngninou, S. Chevalier and J.P. Larpin 236 (2004) 256

Study of adsorption from binary liquid mixtures on thermally treated activated carbon, A. Świątkowski, A. Deryło-Marczewska, J. Goworek and S. Błażewicz 236 (2004) 313

The electrochemical behavior of thermally oxidized CrN coatings deposited on steel by cathodic arc plasma deposition, K.-L. Chang, S.-C. Chung, S.-H. Lai and H.-C. Shih 236 (2004) 406

Yttrium

Deposition of yttrium-based thin films on TA6V alloy substrates, R. Siab, G. Bonnet, J.M. Brossard and J.F. Dinhut 236 (2004) 50

Zinc

On nanophase stability in eutectoid Zn–Al based alloy films, Y.H. Zhu, W.B. Lee, C.Y. Chung and S. To 236 (2004) 106

Effect of benzotriazole derivatives on the corrosion of brass in NaCl solutions, R. Ravichandran, S. Nanjundan and N. Rajendran 236 (2004) 241

Zinc oxide

Preparation of GaN films on ZnO buffer layers by rf magnetron sputtering, H.W. Kim and N.H. Kim 236 (2004) 192

Zirconium

Niobium zirconium nitride sputter-deposited protective coatings, M. Debessai, P. Filip and S.M. Aouadi 236 (2004) 63

The oxidation behavior of Ce-implanted ZrN coating, Q.G. Zhou, X.D. Bai, X.Y. Xue, Y.H. Ling, X.W. Chen, J. Xu and D.R. Wang 236 (2004) 236